-- queries are at the very bottom of the file

DROP TABLE IF EXISTS FACULTIES CASCADE;

DROP TABLE IF EXISTS COURSES CASCADE;

DROP TABLE IF EXISTS MODULES CASCADE;

DROP TABLE IF EXISTS BRANCHES CASCADE;

DROP TABLE IF EXISTS BUILDINGS CASCADE;

DROP TABLE IF EXISTS ROOMS CASCADE;

DROP TABLE IF EXISTS STAFF CASCADE;

DROP TABLE IF EXISTS STUDENTS CASCADE;

DROP TABLE IF EXISTS BRANCHES\_STAFF CASCADE;

DROP TABLE IF EXISTS BRANCHES\_STUDENTS CASCADE;

DROP TABLE IF EXISTS TEACHING\_SESSIONS CASCADE;

DROP TABLE IF EXISTS STAFF\_SESSIONS CASCADE;

DROP TABLE IF EXISTS STUDENT\_SESSIONS CASCADE;

DROP TABLE IF EXISTS STUDENT\_ATTENDANCE CASCADE;

DROP TABLE IF EXISTS FACULTY\_COURSES CASCADE;

DROP TABLE IF EXISTS COURSE\_MODULES CASCADE;

DROP TABLE IF EXISTS STDT\_COURSE CASCADE;

DROP TABLE IF EXISTS STDT\_MODULE CASCADE;

DROP TABLE IF EXISTS EMERGENCY\_CONTACTS CASCADE;

DROP TABLE IF EXISTS STAFF\_EMERGENCY\_CONTACTS CASCADE;

DROP TABLE IF EXISTS STDT\_EMERGENCY\_CONTACTS CASCADE;

-- core structure

CREATE TABLE

FACULTIES (

faculty\_id SERIAL PRIMARY KEY,

faculty\_name VARCHAR(50) NOT NULL UNIQUE

);

CREATE TABLE

COURSES (

course\_id SERIAL PRIMARY KEY,

course\_name VARCHAR(50) NOT NULL UNIQUE

);

CREATE INDEX idx\_course\_id ON COURSES(course\_id);

CREATE TABLE

MODULES (

module\_id SERIAL PRIMARY KEY,

module\_code VARCHAR(10) NOT NULL UNIQUE,

module\_name VARCHAR(50) NOT NULL

);

CREATE INDEX idx\_module\_id ON MODULES(module\_id);

-- locations

CREATE TABLE

BRANCHES (

branch\_id SERIAL PRIMARY KEY,

branch\_name VARCHAR(50) NOT NULL UNIQUE,

branch\_addr1 VARCHAR(100) NOT NULL,

branch\_addr2 VARCHAR(100),

branch\_city VARCHAR(30) NOT NULL,

branch\_postcode VARCHAR(10) NOT NULL

);

CREATE TABLE

BUILDINGS (

building\_id SERIAL PRIMARY KEY,

branch\_id INT,

building\_name VARCHAR(50) NOT NULL,

building\_addr1 VARCHAR(100) NOT NULL,

building\_addr2 VARCHAR(100),

building\_city VARCHAR(30) NOT NULL,

building\_postcode VARCHAR(10) NOT NULL,

FOREIGN KEY (branch\_id) REFERENCES BRANCHES (branch\_id)

);

CREATE TABLE

ROOMS (

branch\_id INT,

room\_id SERIAL PRIMARY KEY,

building\_id INT,

room\_name VARCHAR(50) NOT NULL,

room\_capacity INT NOT NULL,

room\_type VARCHAR(50) NOT NULL,

room\_facilities VARCHAR(255),

FOREIGN KEY (building\_id) REFERENCES BUILDINGS (building\_id)

);

-- people

CREATE TABLE

STAFF (

staff\_id SERIAL PRIMARY KEY,

staff\_first\_name VARCHAR(50) NOT NULL,

staff\_middle\_name VARCHAR(50),

staff\_last\_name VARCHAR(50) NOT NULL,

staff\_email VARCHAR(200) NOT NULL,

staff\_number VARCHAR(15) NOT NULL,

staff\_addr1 VARCHAR(100) NOT NULL,

staff\_addr2 VARCHAR(100),

staff\_city VARCHAR(30) NOT NULL,

staff\_postcode VARCHAR(10) NOT NULL,

branch\_id INT,

faculty\_id INT,

FOREIGN KEY (branch\_id) REFERENCES BRANCHES (branch\_id),

FOREIGN KEY (faculty\_id) REFERENCES FACULTIES (faculty\_id)

);

CREATE INDEX idx\_staff\_id ON STAFF(staff\_id);

CREATE INDEX idx\_staff\_last\_name ON staff(staff\_last\_name);

CREATE TABLE

STUDENTS (

stdt\_id SERIAL PRIMARY KEY,

stdt\_first\_name VARCHAR(50) NOT NULL,

stdt\_middle\_name VARCHAR(50),

stdt\_last\_name VARCHAR(50) NOT NULL,

stdt\_email VARCHAR(200) NOT NULL,

stdt\_number VARCHAR(15) NOT NULL,

stdt\_addr1 VARCHAR(100) NOT NULL,

stdt\_addr2 VARCHAR(100),

stdt\_city VARCHAR(30) NOT NULL,

stdt\_postcode VARCHAR(10) NOT NULL,

branch\_id INT,

FOREIGN KEY (branch\_id) REFERENCES BRANCHES (branch\_id)

);

CREATE INDEX idx\_student\_id ON STUDENTS(stdt\_id);

CREATE INDEX idx\_stdt\_last\_name ON students(stdt\_last\_name);

CREATE TABLE

BRANCHES\_STAFF (

branch\_id INT, -- Foreign Key referencing BRANCHES

staff\_id INT, -- Foreign Key referencing STAFF

PRIMARY KEY (branch\_id, staff\_id), -- Composite Primary Key (one staff member can belong to one branch)

FOREIGN KEY (branch\_id) REFERENCES BRANCHES (branch\_id), -- FK to BRANCHES

FOREIGN KEY (staff\_id) REFERENCES STAFF (staff\_id) -- FK to STAFF

);

CREATE TABLE

BRANCHES\_STUDENTS (

branch\_id INT,

stdt\_id INT,

PRIMARY KEY (branch\_id, stdt\_id),

FOREIGN KEY (branch\_id) REFERENCES BRANCHES (branch\_id),

FOREIGN KEY (stdt\_id) REFERENCES STUDENTS (stdt\_id)

);

-- sessions

CREATE TABLE

TEACHING\_SESSIONS (

session\_ID SERIAL PRIMARY KEY,

room\_ID INT,

session\_date DATE NOT NULL,

session\_start\_time TIME NOT NULL,

session\_end\_time TIME NOT NULL,

session\_session\_cancelled BOOLEAN NOT NULL,

session\_type VARCHAR(50) NOT NULL,

session\_timezone VARCHAR(7) NOT NULL,

FOREIGN KEY (room\_ID) REFERENCES ROOMS (room\_ID),

module\_id INT,

FOREIGN KEY (module\_id) REFERENCES MODULES (module\_id),

UNIQUE(room\_ID, session\_date, session\_start\_time),

UNIQUE(room\_ID, session\_date, session\_end\_time),

CHECK (session\_start\_time < session\_end\_time)

);

--CREATE INDEX idx\_teaching\_sessions\_room\_id ON TEACHING\_SESSIONS(room\_ID);

--CREATE INDEX idx\_teaching\_sessions\_date\_time ON TEACHING\_SESSIONS(session\_date, session\_start\_time, session\_end\_time);

CREATE TABLE

STAFF\_SESSIONS (

session\_ID INT,

staff\_id INT,

PRIMARY KEY (session\_ID, staff\_id),

FOREIGN KEY (session\_ID) REFERENCES TEACHING\_SESSIONS (session\_ID),

FOREIGN KEY (staff\_id) REFERENCES STAFF (staff\_id)

);

--CREATE INDEX idx\_staff\_sessions\_room\_id ON STAFF\_SESSIONS(room\_ID);

--CREATE INDEX idx\_staff\_sessions\_staff\_id ON STAFF\_SESSIONS(staff\_id);

CREATE TABLE

STUDENT\_SESSIONS (

session\_ID INT,

stdt\_id INT,

PRIMARY KEY (session\_ID, stdt\_id),

FOREIGN KEY (session\_ID) REFERENCES TEACHING\_SESSIONS (session\_ID),

FOREIGN KEY (stdt\_id) REFERENCES STUDENTS (stdt\_id)

);

--CREATE INDEX idx\_student\_sessions\_room\_id ON STUDENT\_SESSIONS(room\_ID);

--CREATE INDEX idx\_student\_sessions\_student\_id ON STUDENT\_SESSIONS(stdt\_id);

CREATE TABLE

STUDENT\_ATTENDANCE (

session\_ID INT,

stdt\_id INT,

stdt\_attendance BOOLEAN NOT NULL,

PRIMARY KEY (session\_ID, stdt\_id),

FOREIGN KEY (session\_ID, stdt\_id) REFERENCES STUDENT\_SESSIONS (session\_ID, stdt\_id)

);

-- course connections

CREATE TABLE

FACULTY\_COURSES (

faculty\_id INT,

course\_id INT,

PRIMARY KEY (faculty\_id, course\_id),

FOREIGN KEY (faculty\_id) REFERENCES FACULTIES (faculty\_id),

FOREIGN KEY (course\_id) REFERENCES COURSES (course\_id)

);

CREATE TABLE

COURSE\_MODULES (

course\_id INT,

module\_id INT,

PRIMARY KEY (course\_id, module\_id),

FOREIGN KEY (course\_id) REFERENCES COURSES (course\_id),

FOREIGN KEY (module\_id) REFERENCES MODULES (module\_id)

);

CREATE TABLE

STDT\_COURSE (

stdt\_id INT,

course\_id INT,

course\_start\_date DATE NOT NULL,

course\_end\_date DATE NOT NULL,

PRIMARY KEY (stdt\_id, course\_id),

FOREIGN KEY (stdt\_id) REFERENCES STUDENTS (stdt\_id),

FOREIGN KEY (course\_id) REFERENCES COURSES (course\_id)

);

-- clone table that needs to be looked at, idk why it exists

-- CREATE TABLE

-- STDT\_COURSE (

-- stdt\_id INT,

-- course\_id INT,

-- course\_marks INT,

-- PRIMARY KEY (stdt\_id, course\_id),

-- FOREIGN KEY (stdt\_id) REFERENCES STUDENTS (stdt\_id),

-- FOREIGN KEY (course\_id) REFERENCES COURSES (course\_id)

-- );

CREATE TABLE

STDT\_MODULE (

stdt\_id INT,

module\_id INT,

module\_marks INT,

PRIMARY KEY (stdt\_id, module\_id),

FOREIGN KEY (stdt\_id) REFERENCES STUDENTS (stdt\_id),

FOREIGN KEY (module\_id) REFERENCES MODULES (module\_id)

);

-- emergency contacts

CREATE TABLE

EMERGENCY\_CONTACTS (

contact\_id SERIAL PRIMARY KEY,

contact\_first\_name VARCHAR(50) NOT NULL,

contact\_last\_name VARCHAR(50) NOT NULL,

contact\_email VARCHAR(200) NOT NULL,

contact\_number VARCHAR(15) NOT NULL

);

CREATE TABLE

STAFF\_EMERGENCY\_CONTACTS (

staff\_id INT,

contact\_id INT,

PRIMARY KEY (staff\_id, contact\_id),

FOREIGN KEY (staff\_id) REFERENCES STAFF (staff\_id),

FOREIGN KEY (contact\_id) REFERENCES EMERGENCY\_CONTACTS (contact\_id)

);

CREATE TABLE

STDT\_EMERGENCY\_CONTACTS (

stdt\_id INT,

contact\_id INT,

PRIMARY KEY (stdt\_id, contact\_id),

FOREIGN KEY (stdt\_id) REFERENCES STUDENTS (stdt\_id),

FOREIGN KEY (contact\_id) REFERENCES EMERGENCY\_CONTACTS (contact\_id)

);

-- sample data

INSERT INTO FACULTIES (faculty\_name)

VALUES

('Faculty of Science'), -- ID: 1

('Faculty of Technology'), -- ID: 2

('Faculty of Medicine'), -- ID: 3

('Faculty of Business'), -- ID: 4

('Faculty of Arts'); -- ID: 5

INSERT INTO COURSES (course\_name)

VALUES

('Computer Science'), -- ID: 1

('Physics'), -- ID: 2

('Mathematics'), -- ID: 3

('Biology'), -- ID: 4

('Chemistry'), -- ID: 5

('Engineering'), -- ID: 6

('History'), -- ID: 7

('English Literature'), -- ID: 8

('Medicine'), -- ID: 9

('Business Studies'), -- ID: 10

('Art'), -- ID: 11

('Economics'), -- ID: 12

('Psychology'), -- ID: 13

('Philosophy'); -- ID: 14

INSERT INTO MODULES (module\_code, module\_name)

VALUES

('CS101', 'Introduction to Computer Science'), -- ID: 1

('CS102', 'Data Structures and Algorithms'), -- ID: 2

('CS201', 'Software Engineering Principles'), -- ID: 3

('CS301', 'Artificial Intelligence'), -- ID: 4

('PHY101', 'Introduction to Physics'), -- ID: 5

('PHY102', 'Classical Mechanics'), -- ID: 6

('PHY201', 'Quantum Physics'), -- ID: 7

('PHY301', 'Thermodynamics'), -- ID: 8

('MATH101', 'Calculus I'), -- ID: 9

('MATH102', 'Linear Algebra'), -- ID: 10

('MATH201', 'Differential Equations'), -- ID: 11

('MATH301', 'Advanced Probability and Statistics'), -- ID: 12

('BIO101', 'Introduction to Biology'), -- ID: 13

('BIO102', 'Cell Biology'), -- ID: 14

('BIO201', 'Genetics'), -- ID: 15

('BIO301', 'Ecology and Evolution'), -- ID: 16

('CHE101', 'General Chemistry'), -- ID: 17

('CHE102', 'Organic Chemistry'), -- ID: 18

('CHE201', 'Inorganic Chemistry'), -- ID: 19

('CHE301', 'Physical Chemistry'), -- ID: 20

('ENG101', 'English Literature: Introduction'), -- ID: 21

('ENG102', 'Shakespeare and His World'), -- ID: 22

('ENG201', 'Modern Literature'), -- ID: 23

('ENG301', 'Literary Theory and Criticism'), -- ID: 24

('HIS101', 'Introduction to History'), -- ID: 25

('HIS102', 'World History: Ancient Civilizations'), -- ID: 26

('HIS201', 'European History: Renaissance to Modern'), -- ID: 27

('HIS301', 'History of Political Thought'), -- ID: 28

('MED101', 'Introduction to Medicine'), -- ID: 29

('MED102', 'Anatomy and Physiology'), -- ID: 30

('MED201', 'Pathophysiology'), -- ID: 31

('MED301', 'Medical Ethics'), -- ID: 32

('BUS101', 'Introduction to Business Studies'), -- ID: 33

('BUS102', 'Accounting and Finance'), -- ID: 34

('BUS201', 'Marketing Principles'), -- ID: 35

('BUS301', 'International Business'), -- ID: 36

('ART101', 'Art History: Prehistoric to Renaissance'), -- ID: 37

('ART102', 'Baroque to Modern Art'), -- ID: 38

('ART201', '20th Century Art Movements'), -- ID: 39

('ART301', 'Art Theory and Criticism'), -- ID: 40

('ECO101', 'Introduction to Economics'), -- ID: 41

('ECO102', 'Microeconomics'), -- ID: 42

('ECO201', 'Macroeconomics'), -- ID: 43

('ECO301', 'Development Economics'), -- ID: 44

('PSY101', 'Introduction to Psychology'), -- ID: 45

('PSY102', 'Social Psychology'), -- ID: 46

('PSY201', 'Cognitive Psychology'), -- ID: 47

('PHI101', 'Introduction to Philosophy'), -- ID: 48

('PHI102', 'Ethics'), -- ID: 49

('PHI201', 'Philosophy of Mind'); -- ID: 50

INSERT INTO FACULTY\_COURSES (course\_id, faculty\_id)

VALUES

-- Faculty of Science

(2, 1), -- Physics

(3, 1), -- Mathematics

(4, 1), -- Biology

(5, 1), -- Chemistry

(13, 1), -- Psychology

-- Faculty of Technology

(1, 2), -- Computer Science

(6, 2), -- Engineering

-- Faculty of Medicine

(9, 3), -- Medicine

-- Faculty of Business

(10, 4), -- Business Studies

(12, 4), -- Economics

-- Faculty of Arts

(7, 5), -- History

(8, 5), -- English Literature

(11, 5), -- Art History

(14, 5); -- Philosophy

INSERT INTO COURSE\_MODULES (course\_id, module\_id)

VALUES

-- Computer Science

(1, 1), -- Introduction to Computer Science

(1, 2), -- Data Structures and Algorithms

(1, 3), -- Software Engineering Principles

(1, 4), -- Artificial Intelligence

-- Physics

(2, 5), -- Introduction to Physics

(2, 6), -- Classical Mechanics

(2, 7), -- Quantum Physics

(2, 8), -- Thermodynamics

-- Mathematics

(3, 9), -- Calculus I

(3, 10), -- Linear Algebra

(3, 11), -- Differential Equations

(3, 12), -- Advanced Probability and Statistics

-- Biology

(4, 13), -- Introduction to Biology

(4, 14), -- Cell Biology

(4, 15), -- Genetics

(4, 16), -- Ecology and Evolution

-- Chemistry

(5, 17), -- General Chemistry

(5, 18), -- Organic Chemistry

(5, 19), -- Inorganic Chemistry

(5, 20), -- Physical Chemistry

-- Engineering

(6, 5), -- Introduction to Physics

(6, 6), -- Classical Mechanics

-- History

(7, 25), -- Introduction to History

(7, 26), -- World History: Ancient Civilizations

(7, 27), -- European History: Renaissance to Modern

(7, 28), -- History of Political Thought

-- English Literature

(8, 21), -- English Literature: Introduction

(8, 22), -- Shakespeare and His World

(8, 23), -- Modern Literature

(8, 24), -- Literary Theory and Criticism

-- Medicine

(9, 29), -- Introduction to Medicine

(9, 30), -- Anatomy and Physiology

(9, 31), -- Pathophysiology

(9, 32), -- Medical Ethics

-- Business Studies

(10, 33), -- Introduction to Business Studies

(10, 34), -- Accounting and Finance

(10, 35), -- Marketing Principles

(10, 36), -- International Business

-- Art History

(11, 37), -- Art History: Prehistoric to Renaissance

(11, 38), -- Baroque to Modern Art

(11, 39), -- 20th Century Art Movements

(11, 40), -- Art Theory and Criticism

-- Economics

(12, 41), -- Introduction to Economics

(12, 42), -- Microeconomics

(12, 43), -- Macroeconomics

(12, 44), -- Development Economics

-- Psychology

(13, 45), -- Introduction to Psychology

(13, 46), -- Social Psychology

(13, 47), -- Cognitive Psychology

-- Philosophy

(14, 48), -- Introduction to Philosophy

(14, 49), -- Ethics

(14, 50); -- Philosophy of Mind

INSERT INTO BRANCHES (branch\_name, branch\_addr1, branch\_addr2, branch\_city, branch\_postcode)

VALUES

('Main Campus', '1 University Road', NULL, 'London', 'E1 1AA'),

('West Campus', 'West Road', '6', 'London', 'E1 1EA'),

('East Campus', 'East Road', '4', 'London', 'E1 1FA');

INSERT INTO BUILDINGS (branch\_id, building\_name, building\_addr1, building\_addr2, building\_city, building\_postcode)

VALUES

(1, 'Library', '1 University Road', 'Building A', 'London', 'E1 1AB'),

(1, 'Science Lab', '1 University Road', 'Building B', 'London', 'E1 1AC'),

(1, 'Student Union', '1 University Road', 'Building C', 'London', 'E1 1AD'),

(2, 'Engineering Block', 'West Road', 'Building 1', 'London', 'E1 1EB'),

(2, 'Arts Centre', 'West Road', 'Building 2', 'London', 'E1 1EC'),

(2, 'Sports Hall', 'West Road', 'Building 3', 'London', 'E1 1ED'),

(3, 'Lecture Hall 1', 'East Road', 'Building 4', 'London', 'E1 1FB'),

(3, 'Computer Lab', 'East Road', 'Building 5', 'London', 'E1 1FC'),

(3, 'Cafeteria', 'East Road', 'Building 6', 'London', 'E1 1FD');

INSERT INTO ROOMS (branch\_id, building\_id, room\_name, room\_capacity, room\_type, room\_facilities)

VALUES

(1, 1, 'Main Library', 200, 'Study Room', 'Bookshelves, Computers, Wifi, Projector'),

(1, 1, 'Quiet Zone', 50, 'Study Room', 'Bookshelves, Wifi'),

(1, 2, 'Lab 101', 30, 'Laboratory', 'Computers, Projector, Whiteboards, Laboratory Equipment'),

(1, 3, 'Student Lounge', 100, 'Lounge', 'Couches, Wifi, Coffee Machines, TV'),

(2, 4, 'Lecture Hall 2', 150, 'Lecture Hall', 'Projector, Microphones, Whiteboard, Chairs'),

(2, 4, 'Workshop Room', 40, 'Workshop', 'Workbenches, Tools, Projector, Wifi'),

(2, 5, 'Art Studio', 25, 'Studio', 'Tables, Easels, Wifi, Paint Supplies'),

(2, 6, 'Gym', 60, 'Sports Facility', 'Gym Equipment, Showers, Lockers'),

(3, 7, 'Lecture Hall 3', 100, 'Lecture Hall', 'Projector, Microphones, Chairs'),

(3, 8, 'Computer Lab 2', 40, 'Computer Lab', 'Computers, Projector, Wifi, Whiteboard'),

(3, 9, 'Cafeteria', 150, 'Dining Hall', 'Seating, Vending Machines, Coffee Machines, Wifi');

INSERT INTO STAFF (staff\_first\_name, staff\_middle\_name, staff\_last\_name, staff\_email, staff\_number, staff\_addr1, staff\_addr2, staff\_city, staff\_postcode, branch\_id, faculty\_id)

VALUES

('John', 'A', 'Doe', 'john.doe@example.com', '327932347124', '123 Main Street', NULL, 'London', 'E1 1AA', 1, 1),

('Valentin', NULL, 'Adamescu', 'valentin.adamescu@example.com', '447919447524', '456 Main St', NULL, 'London', 'E1 1FA', 2, 2),

('Jane', 'Fiona', 'Smith', 'jane2232@yahoo.com', '447919447124', '456 Main Street', NULL, 'London', 'E1 1E4', 3, 3),

('Emily', 'Grace', 'Taylor', 'emily.taylor@example.com', '327922147125', '789 Park Avenue', NULL, 'London', 'W1 2AA', 1, 4),

('Daniel', NULL, 'Williams', 'daniel.williams@example.com', '447912345987', '101 River Street', NULL, 'London', 'N1 4AA', 2, 2),

('Sophia', 'Louise', 'Jones', 'sophia.jones@hotmail.com', '447918235876', '11 Oakwood Rd', NULL, 'London', 'NW1 5RT', 3, 5),

('Michael', 'J', 'Brown', 'michael.brown@gmail.com', '327923467890', '123 River Avenue', NULL, 'London', 'E1 2YY', 1, 1),

('Olivia', 'Marie', 'Evans', 'olivia.evans@yahoo.co.uk', '447914569123', '19 High Street', NULL, 'London', 'SW1 6ZZ', 2, 2),

('David', 'Christopher', 'Garcia', 'david.garcia@example.com', '447919789654', '555 Baker Street', NULL, 'London', 'WC1 7PT', 3, 3),

('Rachel', 'Anne', 'Johnson', 'rachel.johnson@example.com', '327923467896', '312 Sunset Boulevard', NULL, 'London', 'E1 1PP', 1, 4),

('Samuel', 'Thomas', 'King', 'samuel.king@example.com', '447919354678', '69 Greenfield Avenue', NULL, 'London', 'NW3 3DB', 2, 2),

('Charlotte', 'Mary', 'Miller', 'charlotte.miller@example.com', '327923467897', '84 Elm Street', NULL, 'London', 'SE1 4GG', 3, 5),

('Alexander', 'T', 'Adams', 'alexander.adams@example.com', '447919324567', '15 King’s Road', NULL, 'London', 'SW3 2QQ', 1, 1),

('Victoria', 'Louise', 'Scott', 'victoria.scott@example.com', '447912457321', '230 Highfield Road', NULL, 'London', 'W1C 2RR', 2, 2),

('Benjamin', 'L', 'Harris', 'benjamin.harris@example.com', '327923467898', '500 Riverside Drive', NULL, 'London', 'N1 8YU', 3, 3),

('Emma', 'Grace', 'Clark', 'emma.clark@example.com', '447919234567', '11 Kings Lane', NULL, 'London', 'W2 2HB', 1, 4),

('Henry', 'Lee', 'Roberts', 'henry.roberts@example.com', '447912467890', '26 Maple Street', NULL, 'London', 'SW4 7RL', 2, 2),

('Liam', 'David', 'Martinez', 'liam.martinez@example.com', '327923467899', '90 Oak Street', NULL, 'London', 'SE2 5UJ', 3, 5),

('Isabella', 'L', 'Evans', 'isabella.evans@example.com', '447919345678', '77 Brookside Road', NULL, 'London', 'N3 4EL', 1, 1);

INSERT INTO STUDENTS (stdt\_first\_name, stdt\_middle\_name, stdt\_last\_name, stdt\_email, stdt\_number, stdt\_addr1, stdt\_addr2, stdt\_city, stdt\_postcode, branch\_id)

VALUES

('Håkan', NULL, 'Sorrill', 'usorrill0@ow.ly', '9805289692', '3809 Nova Crossing', NULL, 'Lyon', 'T33 1QA', 1),

('Göran', 'Roderick', 'Edes', 'redes1@google.de', '6667879836', '560 Springs Point', NULL, 'Valašská Bystřice', 'PO9 VBA', 2),

('Adélaïde', 'Etienne', 'Britto', 'ebritto2@cpanel.net', '9849930954', '22464 Pond Street', NULL, 'Ralevka', 'PO9 VFA', 3),

('Estée', NULL, 'Pashenkov', 'epashenkov3@jugem.jp', '5791000659', '75674 Delladonna Place', NULL, 'London', 'P30 IKF', 1),

('Almérinda', 'Nichols', 'Prium', 'nprium4@dyndns.org', '4915438001', '10 Pine View Junction', NULL, 'Novoul’yanovsk', 'EP3 DLA', 2),

('Bérénice', 'Coleen', 'Guillet', 'cguillet5@reddit.com', '4557529385', '25906 Caliangt Lane', NULL, 'London', 'DLA KFE', 3),

('Nélie', 'Annette', 'Kollas', 'akollas6@sciencedirect.com', '6726283424', '3 Shasta Avenue', 'PO Box 27090', 'Zhitan', 'T3O FLA', 1),

('Sélène', NULL, 'Delmage', 'edelmage7@mlb.com', '2823074972', '1 Shopko Alley', NULL, 'Conduaga', 'FKA L03', 2),

('Céline', NULL, 'Klimas', 'qklimas8@go.com', '1078434270', '6 Eagle Crest Trail', NULL, 'Nabire', 'FL3 P45', 3),

('Maëly', 'Cordie', 'Brashier', 'cbrashier9@shutterfly.com', '7213626088', '322 Artisan Street', NULL, 'Reuleuet', 'DKA 303', 1),

('Edmée', NULL, 'Hawkyens', 'dhawkyensa@springer.com', '4795568644', '979 Springs Park', NULL, 'London', '0RK LFA', 2),

('Léandre', NULL, 'Bodicum', 'mbodicumb@4shared.com', '6673152503', '94 Pepper Wood Park', NULL, 'Babatngon', 'ELEE EKA', 3),

('Esbjörn', 'Arlene', 'Pollicatt', 'apollicattc@github.com', '8774155467', '69 Weeping Alley', NULL, 'Lorengau', 'DKA 39233', 1),

('Angélique', NULL, 'Lacknor', 'llacknord@amazon.co.uk', '3927696318', '04 Hoepker Hill', NULL, 'Sukabumi', 'EKADV OE', 2),

('Marie-thérèse', NULL, 'Patrone', 'tpatronee@phpbb.com', '7714959812', '8349 Buena Vista Pass', NULL, 'Maisons-Laff', '704 CEX', 3),

('Cunégonde', 'Celestia', 'Bresman', 'cbresmanf@unicef.org', '2177913875', '17 Cardinal Street', NULL, 'Caofang', 'E9R 863LA', 1),

('Cloé', NULL, 'Durbridge', 'edurbridgeg@disqus.com', '7501653750', '9 Utah Avenue', NULL, 'Norrköping', '602 09', 2),

('Pélagie', NULL, 'Houchen', 'whouchenh@devhub.com', '6522691979', '656 Cordelia Court', NULL, 'Tengah', 'FUJSAMND', 3),

('Solène', 'Mohandis', 'Priest', 'mpriesti@patch.com', '1665165864', '6251 Talisman Junction', NULL, 'Sokolo', 'F9FA', 1),

('Estée', 'Tracee', 'Medling', 'tmedlingj@mayoclinic.com', '2741371363', '46 Golf Junction', 'PO Box 150', 'Suleja', 'PIE ME3', 2),

('Marius', NULL, 'Killford', 'mkillfordk@ucoz.ru', '2142346626', '047 Village Green Court', NULL, 'Ai Tu', 'PIOKA', 3),

('Eloise', 'Tayt', 'Meir', 'mtaytl@whitehouse.gov', '2565297282', '9818 Cottonwood Road', NULL, 'London', '35805', 1),

('Camilla', NULL, 'Padley', 'spadleym@godaddy.com', '1609037728', '12007 Green Ridge Center', NULL, 'Cartago', '30703', 2),

('Maureen', 'Estevan', 'Lambell', 'elambelln@google.nl', '5526145817', '93 Stephen Circle', NULL, 'London', '404 PBT', 3),

('Ana', NULL, 'McNeish', 'cmcneisho@deliciousdays.com', '7089133716', '9 Mariners Cove Place', NULL, 'Shihudang', 'FJAS M2', 1),

('Danielle', NULL, 'Berceros', 'rbercerosp@list-manage.com', '2469494762', '15 Acker Street', 'Suite 76', 'Abashiri', '336-0926', 2),

('Lauren', NULL, 'Sedcole', 'msedcoleq@earthlink.net', '9419516701', '12 Rowland Hill', NULL, 'London', '88870-000', 3),

('Helen', 'Devonne', 'Prestie', 'dprestier@facebook.com', '3651557411', '94 Summerview Parkway', 'Apt 147', 'London', '6105', 1),

('Adeline', NULL, 'Biaggetti', 'mbiaggettis@spotify.com', '2028113731', '30380 Susan Street', NULL, 'Washington', '20546', 2),

('Megan', NULL, 'Hulett', 'lhulettt@etsy.com', '4586688349', '74318 Dahle Plaza', 'Suite 95', 'McKinley', '6214', 3),

('Leah', NULL, 'Tomasino', 'jtomasinou@linkedin.com', '5586457817', '328 Knutson Circle', NULL, 'Al Majāridah', 'FAJDS MA', 1),

('Gabrielle', NULL, 'Jacob', 'mjacobv@xrea.com', '4018516769', '6 Holmberg Park', 'Suite 15', 'Charles-de-Gaulle', '95719 CE 1', 2),

('Marie', NULL, 'Daspar', 'vdasparw@huffingtonpost.com', '7627563579', '63044 Comanche Center', NULL, 'Bendo', 'FJA FAC', 3),

('Dawn', NULL, 'Damper', 'mdamperx@clickbank.net', '3383829853', '677 Carberry Crossing', NULL, 'Xuguang', 'E29 MFA', 1),

('Lynn', NULL, 'Brinded', 'lbrindedy@gmpg.org', '7597819399', '59 Tennessee Center', NULL, 'Methven', '7745', 2),

('Kylie', NULL, 'Denholm', 'bdenholmz@moonfruit.com', '5396978209', '519 Holmberg Circle', NULL, 'Yishan', 'F83 301', 3),

('Yvonne', 'Ninja', 'Dacie', 'ddunne10@themeforest.net', '4391602637', '86342 Helena Center', NULL, 'Grijó', '4415-400', 1),

('Yuki', NULL, 'Goodright', 'ggoodright11@reference.com', '8882763628', '222 Armistice Pass', NULL, 'Mhamid', 'FIA KEA', 2),

('Martin', 'Nikola', 'Hancell', 'nhancell12@godaddy.com', '2499004797', '72 Vera Road', NULL, 'Yongfeng', 'E8 KFA', 3),

('Gaia', 'Aile', 'Semeniuk', 'aseiuk13@mayoclinic.com', '5377908887', '28826 Clarendon Road', NULL, 'xingchang', 'FJADSA', 1),

('Esbjorn', NULL, 'Frensch', 'ofrensch14@census.gov', '7381204230', '819 Cottonwood Plaza', NULL, 'Koronadal', '6122', 2),

('Katherine', NULL, 'Bowlands', 'cbowlands15@rambler.ru', '6953681767', '62 Pearson Parkway', NULL, 'Kota Kinabalu', '88872', 3),

('Stuart', NULL, 'Stodd', 'astodd16@wikia.com', '1231419647', '5562 Reinke Alley', NULL, 'Gushan', 'FJAF DA', 1),

('Alison', NULL, 'McDougal', 'amcdougal17@creativecommons.org', '2128529462', '157 Dawn Center', NULL, 'London', '768 11', 2),

('Clea', NULL, 'Kirton', 'rkirton18@issuu.com', '6496133085', '62289 Mccormick Road', NULL, 'San Juan', '6227', 3),

('Annette', NULL, 'Trodd', 'htrodd19@mysql.com', '3471601764', '3507 Nelson Court', NULL, 'Tiel', '4004', 1),

('Megan', 'Taper', 'Chasmar', 'cchasmar1a@cbc.ca', '2162867826', '74631 Upham Court', NULL, 'Tanabe', '610-0331', 2),

('Aloise', NULL, 'Glewe', 'tglewe1b@behance.net', '1628886646', '49131 Butternut Plaza', NULL, 'Sanban', '610-01', 3),

('Lynn', 'Fade', 'Sink', 'msink1c@51.la', '9531742617', '73 Marquette Court', NULL, 'Sukamulya', '49823 FA', 1),

('Simpfey', NULL, 'Amsden', 'gamsden1d@virginia.edu', '9186696619', '04611 Paget Court', NULL, 'Yinhe', 'FIA MDAS', 2);

-- INSERT INTO TEACHING\_SESSIONS (room\_ID, session\_date, session\_start\_time, session\_end\_time, session\_session\_cancelled, session\_type, session\_timezone)

-- VALUES

-- (1, '2024-10-01', '10:00', '11:00', FALSE, 'In-Person', 'GMT');

-- -- Attempt to insert Session B (this should trigger an error)

-- INSERT INTO TEACHING\_SESSIONS (room\_ID, session\_date, session\_start\_time, session\_end\_time, session\_session\_cancelled, session\_type, session\_timezone)

-- VALUES

-- (1, '2024-10-01', '10:00', '12:00', FALSE, 'In-Person', 'GMT');

INSERT INTO TEACHING\_SESSIONS (room\_ID, session\_date, session\_start\_time, session\_end\_time, session\_session\_cancelled, session\_type, session\_timezone, module\_id)

VALUES

(1, '2024-10-01', '09:00', '11:00', FALSE, 'In-Person', 'GMT', 12),

(2, '2024-10-01', '11:00', '13:00', FALSE, 'In-Person', 'GMT', 1),

(3, '2024-10-01', '09:00', '10:00', FALSE, 'In-Person', 'GMT', 15),

(4, '2024-10-01', '10:00', '11:00', FALSE, 'In-Person', 'GMT', 20),

(5, '2024-10-01', '10:00', '12:00', FALSE, 'In-Person', 'GMT', 18),

(6, '2024-10-01', '12:00', '13:00', TRUE, 'In-Person', 'GMT', 23),

(NULL, '2024-10-02', '09:00', '11:00', FALSE, 'Online', 'GMT', 25),

(NULL, '2024-10-02', '11:00', '13:00', FALSE, 'Online', 'GMT', 1),

(NULL, '2024-10-02', '10:00', '11:00', TRUE, 'Online', 'GMT', 1),

(1, '2024-10-03', '09:00', '10:30', FALSE, 'In-Person', 'GMT', 10),

(4, '2024-10-03', '10:30', '12:00', FALSE, 'In-Person', 'GMT', 35),

(NULL, '2024-10-03', '13:00', '14:00', TRUE, 'Online', 'GMT', 45),

(2, '2024-10-04', '08:00', '09:30', FALSE, 'In-Person', 'GMT', 5),

(3, '2024-10-04', '09:30', '11:00', FALSE, 'In-Person', 'GMT', 8),

(6, '2024-10-04', '11:00', '13:00', FALSE, 'In-Person', 'GMT', 13),

(1, '2024-10-05', '14:00', '16:00', FALSE, 'Online', 'GMT', 9),

(NULL, '2024-10-05', '10:00', '12:00', FALSE, 'Online', 'GMT', 2),

(4, '2024-10-06', '08:00', '09:30', TRUE, 'In-Person', 'GMT', 22),

(5, '2024-10-06', '10:00', '12:00', TRUE, 'In-Person', 'GMT', 14),

(6, '2024-10-06', '13:00', '14:30', FALSE, 'Online', 'GMT', 19),

(2, '2024-10-07', '10:00', '12:00', FALSE, 'In-Person', 'GMT', 3),

(3, '2024-10-07', '12:00', '14:00', FALSE, 'Online', 'GMT', 17),

(4, '2024-10-08', '09:00', '10:30', TRUE, 'In-Person', 'GMT', 7),

(5, '2024-10-08', '10:30', '12:00', FALSE, 'In-Person', 'GMT', 21),

(6, '2024-10-08', '12:00', '13:30', TRUE, 'Online', 'GMT', 24);

INSERT INTO STAFF\_SESSIONS (session\_id, staff\_id)

VALUES

(5, 5),

(3, 4),

(7, 7),

(2, 6),

(8, 9),

(8, 1),

(3, 2),

(6, 9),

(7, 4),

(8, 2),

(1, 1),

(6, 1),

(2, 9),

(2, 4),

(7, 6),

(4, 7),

(7, 3),

(3, 9),

(2, 2),

(7, 2),

(6, 7),

(4, 4),

(2, 10),

(8, 5),

(1, 5),

(4, 5),

(8, 6),

(3, 1),

(5, 3),

(6, 4),

(7, 5),

(15, 6),

(8, 7),

(4, 8),

(12, 9),

(7, 10),

(8, 11),

(5, 12),

(3, 13),

(7, 14),

(2, 15),

(4, 16);

INSERT INTO STUDENT\_SESSIONS (session\_id, stdt\_id)

VALUES

(3, 42),

(6, 15),

(4, 47),

(7, 30),

(8, 27),

(3, 24),

(7, 46),

(3, 40),

(6, 37),

(8, 31),

(4, 4),

(4, 19),

(2, 27),

(1, 37),

(3, 35),

(5, 5),

(1, 33),

(4, 5),

(5, 43),

(7, 48),

(3, 10),

(4, 21),

(1, 28),

(7, 11),

(5, 1),

(7, 35),

(3, 32),

(6, 5),

(2, 43),

(7, 8),

(8, 2),

(1, 45),

(7, 29),

(6, 36),

(4, 50),

(2, 21),

(6, 45),

(1, 9),

(4, 34),

(4, 24),

(8, 6),

(2, 10),

(2, 40),

(1, 32),

(5, 26),

(7, 1),

(2, 39),

(3, 5),

(12, 11),

(1, 14),

(6, 17),

(9, 21),

(2, 23),

(15, 24),

(4, 25),

(10, 27),

(18, 28),

(5, 30),

(11, 32),

(8, 33),

(14, 35),

(13, 37),

(16, 39),

(7, 41),

(17, 45),

(12, 46),

(4, 48),

(3, 50),

(24, 19),

(23, 20),

(9, 26),

(1, 29),

(20, 31),

(18, 34),

(8, 38),

(5, 40),

(16, 42),

(21, 44),

(10, 47),

(22, 49),

(11, 50),

(19, 6),

(13, 9),

(14, 22),

(2, 18),

(15, 4),

(23, 12),

(20, 3),

(6, 13),

(1, 7);

INSERT INTO STUDENT\_ATTENDANCE (session\_id, stdt\_id, stdt\_attendance)

VALUES

(3, 42, TRUE),

(6, 15, TRUE),

(4, 47, TRUE),

(7, 30, TRUE),

(8, 27, TRUE),

(3, 24, TRUE),

(7, 46, TRUE),

(3, 40, TRUE),

(6, 37, TRUE),

(8, 31, TRUE),

(4, 4, TRUE),

(4, 19, TRUE),

(2, 27, TRUE),

(1, 37, TRUE),

(3, 35, TRUE),

(5, 5, TRUE),

(1, 33, TRUE),

(4, 5, TRUE),

(5, 43, TRUE),

(7, 48, TRUE),

(3, 10, TRUE),

(4, 21, TRUE),

(1, 28, TRUE),

(7, 11, TRUE),

(5, 1, TRUE),

(7, 35, TRUE),

(3, 32, TRUE),

(6, 5, TRUE),

(2, 43, TRUE),

(7, 8, TRUE),

(8, 2, TRUE),

(1, 45, TRUE),

(7, 29, TRUE),

(6, 36, TRUE),

(4, 50, TRUE),

(2, 21, TRUE),

(6, 45, TRUE),

(1, 9, TRUE),

(4, 34, TRUE),

(4, 24, TRUE),

(8, 6, TRUE),

(2, 10, TRUE),

(2, 40, TRUE),

(1, 32, TRUE),

(5, 26, TRUE),

(7, 1, TRUE),

(2, 39, TRUE),

(3, 5, TRUE),

(12, 11, FALSE),

(1, 14, FALSE),

(6, 17, FALSE),

(9, 21, FALSE),

(2, 23, FALSE),

(15, 24, FALSE),

(4, 25, FALSE),

(10, 27, FALSE),

(18, 28, FALSE),

(5, 30, FALSE),

(11, 32, FALSE),

(8, 33, FALSE),

(14, 35, FALSE),

(13, 37, FALSE),

(16, 39, FALSE),

(7, 41, FALSE),

(17, 45, FALSE),

(12, 46, FALSE),

(4, 48, FALSE),

(3, 50, FALSE),

(24, 19, FALSE),

(23, 20, FALSE),

(9, 26, FALSE),

(1, 29, FALSE),

(20, 31, FALSE),

(18, 34, FALSE),

(8, 38, FALSE),

(5, 40, FALSE),

(16, 42, FALSE),

(21, 44, FALSE),

(10, 47, FALSE),

(22, 49, FALSE),

(11, 50, FALSE),

(19, 6, FALSE),

(13, 9, FALSE),

(14, 22, FALSE),

(2, 18, FALSE),

(15, 4, FALSE),

(23, 12, FALSE),

(20, 3, FALSE),

(6, 13, FALSE),

(1, 7, FALSE);

INSERT INTO STDT\_COURSE (stdt\_id, course\_id, course\_start\_date, course\_end\_date)

VALUES

(1, 1, '2024-10-01', '2025-10-01'),

(2, 2, '2024-10-01', '2025-10-01'),

(3, 3, '2024-10-01', '2025-10-01'),

(4, 4, '2024-10-01', '2025-10-01'),

(5, 5, '2024-10-01', '2025-10-01'),

(6, 1, '2024-10-01', '2025-10-01'),

(7, 2, '2024-10-01', '2025-10-01'),

(8, 3, '2024-10-01', '2025-10-01'),

(9, 4, '2024-10-01', '2025-10-01'),

(10, 5, '2024-10-01', '2025-10-01'),

(11, 1, '2024-10-01', '2025-10-01'),

(12, 2, '2024-10-01', '2025-10-01'),

(13, 3, '2024-10-01', '2025-10-01'),

(14, 4, '2024-10-01', '2025-10-01'),

(15, 5, '2024-10-01', '2025-10-01'),

(16, 1, '2024-10-01', '2025-10-01'),

(17, 2, '2024-10-01', '2025-10-01'),

(18, 3, '2024-10-01', '2025-10-01'),

(19, 4, '2024-10-01', '2025-10-01'),

(20, 5, '2024-10-01', '2025-10-01'),

(21, 1, '2024-10-01', '2025-10-01'),

(22, 2, '2024-10-01', '2025-10-01');

INSERT INTO STDT\_MODULE (stdt\_id, module\_id, module\_marks)

VALUES

(1, 1, 80),

(1, 2, 70),

(1, 3, 32),

(2, 4, 85),

(2, 5, 45),

(2, 6, 95),

(3, 7, 80),

(3, 8, 21),

(3, 9, 90),

(4, 10, 85),

(4, 11, 24),

(4, 12, 95),

(5, 13, 80),

(5, 14, 30),

(5, 15, 90);

INSERT INTO EMERGENCY\_CONTACTS (contact\_first\_name, contact\_last\_name, contact\_email, contact\_number)

VALUES

('Jane', 'Doe', 'janedo@gmail.com', '447912345987'),

('John', 'Doe', 'johndoe@yahoo.com', '381238184131'),

('Emily', 'Doe', 'emilydoe@hotmail.com', '447912345988'),

('Michael', 'Smith', 'michaelsmith@gmail.com', '447912345989'),

('Sophia', 'Williams', 'sophiawilliams@gmail.com', '447912345990'),

('Daniel', 'Jones', 'danieljones@gmail.com', '447912345991'),

('Olivia', 'Brown', 'oliviabrown@gmail.com', '447912345992'),

('David', 'Evans', 'davidevans@gmail.com', '447912345993'),

('Lucy', 'Garcia', 'lucygarcia@hotmail.com', '447912345994'),

('John', 'Walker', 'johnwalker@gmail.com', '447912345995'),

('Henry', 'Sorrill', 'hsorrill0@ow.ly', '9805289692'),

('George', 'Edes', 'gedes1@google.com', '6667879836'),

('Adelaide', 'Britton', 'ebritton2@cpanel.net', '9849930954'),

('Esther', 'Pashenkov', 'epashenkov3@jugem.jp', '5791000659'),

('Alison', 'Prium', 'aprium4@dyndns.org', '4915438001'),

('Bernice', 'Guillet', 'cguillet5@reddit.com', '4557529385'),

('Nellie', 'Kollas', 'akollas6@sciencedirect.com', '6726283424'),

('Selina', 'Delmage', 'edelmage7@mlb.com', '2823074972'),

('Celine', 'Klimas', 'qklimas8@go.com', '1078434270'),

('Mayla', 'Brashier', 'cbrashier9@shutterfly.com', '7213626088'),

('Isabella', 'Taylor', 'isabellataylor@gmail.com', '447912345996'),

('Ethan', 'Parker', 'ethanparker@yahoo.com', '447912345997'),

('Liam', 'Martin', 'liammartin@hotmail.com', '447912345998'),

('Charlotte', 'Thompson', 'charlottethompson@gmail.com', '447912345999'),

('Mason', 'Garcia', 'masongarcia@gmail.com', '447912346000'),

('Ava', 'White', 'avawhite@yahoo.com', '447912346001'),

('Lucas', 'Adams', 'lucasadams@hotmail.com', '447912346002'),

('Ella', 'Young', 'ellayoung@gmail.com', '447912346003'),

('Benjamin', 'Scott', 'benjaminscott@gmail.com', '447912346004'),

('Harper', 'Mitchell', 'harpermitchell@gmail.com', '447912346005'),

('Sebastian', 'Moore', 'sebastianmoore@gmail.com', '447912346006'),

('Amelia', 'Harris', 'ameliaharris@yahoo.com', '447912346007'),

('William', 'Clark', 'williamclark@hotmail.com', '447912346008'),

('Grace', 'Roberts', 'graceroberts@gmail.com', '447912346009'),

('Jack', 'Lewis', 'jacklewis@gmail.com', '447912346010'),

('Madeline', 'King', 'madelineking@yahoo.com', '447912346011'),

('Noah', 'Hill', 'noahhill@hotmail.com', '447912346012'),

('Zoe', 'Nelson', 'zoenelson@gmail.com', '447912346013'),

('Matthew', 'Wright', 'matthewwright@gmail.com', '447912346014');

INSERT INTO STAFF\_EMERGENCY\_CONTACTS (staff\_id, contact\_id)

VALUES

(1, 1),

(2, 2),

(3, 3),

(4, 4),

(5, 5),

(6, 6),

(7, 7),

(8, 8),

(9, 9),

(10, 10);

INSERT INTO STDT\_EMERGENCY\_CONTACTS (stdt\_id, contact\_id)

VALUES

(1, 11),

(2, 12),

(3, 13),

(4, 14),

(5, 15),

(6, 16),

(7, 17),

(8, 18),

(9, 19),

(10, 20),

(14, 21),

(15, 22),

(16, 23),

(17, 24),

(18, 25),

(19, 26),

(20, 27),

(21, 28),

(22, 29),

(23, 30),

(24, 1),

(25, 2),

(26, 3),

(27, 4),

(28, 5),

(29, 6),

(30, 7),

(31, 8),

(32, 9),

(33, 10);

----QUERIES AND VIEWS and VIEW BASED QUERIES BELOW

--QUERIES

-- run each query individually. you may have to press 'q' after each one

-- press 'ctrl c' if it runs endlessly

-- query lists the Faculty and its courses

SELECT

F.faculty\_name AS "Faculty Name",

C.course\_name AS "Course Name",

COUNT(CM.module\_id) AS "Number of Modules"

FROM

FACULTIES F

JOIN

FACULTY\_COURSES FC ON F.faculty\_id = FC.faculty\_id

JOIN

COURSES C ON FC.course\_id = C.course\_id

LEFT JOIN

COURSE\_MODULES CM ON C.course\_id = CM.course\_id

GROUP BY

F.faculty\_name, C.course\_name

ORDER BY

COUNT(CM.module\_id) DESC, F.faculty\_name, C.course\_name;

--QUERIE 2

--This query lists staff members along with their emergency contacts, showing staff with no contacts(if none added) as well.

SELECT

S.staff\_first\_name || ' ' || S.staff\_last\_name AS "Staff Name",

EC.contact\_first\_name || ' ' || EC.contact\_last\_name AS "Emergency Contact",

EC.contact\_email AS "Emergency Contact Email",

EC.contact\_number AS "Emergency Contact Number"

FROM

STAFF S

LEFT JOIN

STAFF\_EMERGENCY\_CONTACTS SEC ON S.staff\_id = SEC.staff\_id

LEFT JOIN

EMERGENCY\_CONTACTS EC ON SEC.contact\_id = EC.contact\_id

ORDER BY

S.staff\_last\_name, S.staff\_first\_name;

--QUERIE 3

--List of teachers and their taught sessions, alongside their emails, branch and faculty.

SELECT

S.staff\_first\_name || ' ' || S.staff\_last\_name AS "Teacher Name",

S.staff\_email AS "Email",

COUNT(SF.session\_ID) AS "Sessions Taught",

B.branch\_name AS "Branch Name",

F.faculty\_name AS "Faculty Name"

FROM

STAFF S

LEFT JOIN

STAFF\_SESSIONS SF ON S.staff\_id = SF.staff\_id

LEFT JOIN

BRANCHES B ON S.branch\_id = B.branch\_id

LEFT JOIN

FACULTIES F ON S.faculty\_id = F.faculty\_id

GROUP BY

S.staff\_first\_name, S.staff\_last\_name, S.staff\_email, B.branch\_name, F.faculty\_name

ORDER BY

"Sessions Taught" DESC, "Teacher Name", "Branch Name", "Faculty Name";

--QUERIE 4

--Student Attendance Summary, this query provides a summary of attendance for each student, showing the total sessions and attended sessions.

SELECT

S.stdt\_first\_name || ' ' || S.stdt\_last\_name AS "Student Name",

COUNT(DISTINCT TS.session\_id) AS "Total Sessions",

SUM(CASE WHEN SA.stdt\_attendance = TRUE THEN 1 ELSE 0 END) AS "Attended Sessions",

B.branch\_name AS "Branch Name"

FROM

STUDENTS S

LEFT JOIN

STUDENT\_SESSIONS ST ON S.stdt\_id = ST.stdt\_id

LEFT JOIN

TEACHING\_SESSIONS TS ON ST.session\_ID = TS.session\_id

LEFT JOIN

STUDENT\_ATTENDANCE SA ON ST.session\_ID = SA.session\_id AND S.stdt\_id = SA.stdt\_id

LEFT JOIN

BRANCHES B ON S.branch\_id = B.branch\_id

GROUP BY

S.stdt\_first\_name, S.stdt\_last\_name, B.branch\_name

ORDER BY

"Total Sessions" DESC, "Attended Sessions" DESC, "Branch Name" ASC, "Student Name" ASC;

--QUERIE 5

-- Students with missed sessions showing their assigned emergency contact if exists

SELECT

S.stdt\_first\_name || ' ' || S.stdt\_last\_name AS "Student Name",

S.stdt\_email AS "Student Email",

S.stdt\_number AS "Student Number",

EC.contact\_first\_name || ' ' || EC.contact\_last\_name AS "Emergency Contact",

EC.contact\_email AS "Emergency Contact Email",

EC.contact\_number AS "Emergency Contact Number",

COUNT(SA.session\_id) AS "Missed Sessions"

FROM

STUDENTS S

LEFT JOIN

STUDENT\_SESSIONS ST ON S.stdt\_id = ST.stdt\_id

LEFT JOIN

STUDENT\_ATTENDANCE SA ON ST.session\_ID = SA.session\_id AND SA.stdt\_attendance = FALSE

LEFT JOIN

STDT\_EMERGENCY\_CONTACTS SEC ON S.stdt\_id = SEC.stdt\_id

LEFT JOIN

EMERGENCY\_CONTACTS EC ON SEC.contact\_id = EC.contact\_id

GROUP BY

S.stdt\_first\_name, S.stdt\_last\_name, S.stdt\_email, S.stdt\_number, EC.contact\_first\_name, EC.contact\_last\_name, EC.contact\_email, EC.contact\_number

HAVING

COUNT(SA.session\_id) > 0

ORDER BY

"Missed Sessions" DESC;

------

--OUR 5 VIEWS

CREATE VIEW faculty\_courses\_view AS

SELECT

F.faculty\_name AS "Faculty Name",

C.course\_name AS "Course Name",

COUNT(CM.module\_id) AS "Number of Modules"

FROM

FACULTIES F

JOIN

FACULTY\_COURSES FC ON F.faculty\_id = FC.faculty\_id

JOIN

COURSES C ON FC.course\_id = C.course\_id

LEFT JOIN

COURSE\_MODULES CM ON C.course\_id = CM.course\_id

GROUP BY

F.faculty\_name, C.course\_name

ORDER BY

COUNT(CM.module\_id) DESC, F.faculty\_name, C.course\_name;

-- This query gets the total number of modules per faculty from the faculty\_courses\_view. It helps identify which faculties have

--the most modules associated with their courses, this will be useful for resource allocation and their curriculum planning.

--------VIEW 2

CREATE VIEW staff\_emergency\_contacts\_view AS

SELECT

S.staff\_first\_name || ' ' || S.staff\_last\_name AS "Staff Name",

EC.contact\_first\_name || ' ' || EC.contact\_last\_name AS "Emergency Contact",

EC.contact\_email AS "Emergency Contact Email",

EC.contact\_number AS "Emergency Contact Number"

FROM

STAFF S

LEFT JOIN

STAFF\_EMERGENCY\_CONTACTS SEC ON S.staff\_id = SEC.staff\_id

LEFT JOIN

EMERGENCY\_CONTACTS EC ON SEC.contact\_id = EC.contact\_id

ORDER BY

S.staff\_last\_name, S.staff\_first\_name;

--This query identifies staff members who do not have emergency contacts.

-----VIEW3

CREATE VIEW teachers\_sessions\_view AS

SELECT

S.staff\_first\_name || ' ' || S.staff\_last\_name AS "Teacher Name",

S.staff\_email AS "Email",

COUNT(SF.session\_ID) AS "Sessions Taught",

B.branch\_name AS "Branch Name",

F.faculty\_name AS "Faculty Name"

FROM

STAFF S

LEFT JOIN

STAFF\_SESSIONS SF ON S.staff\_id = SF.staff\_id

LEFT JOIN

BRANCHES B ON S.branch\_id = B.branch\_id

LEFT JOIN

FACULTIES F ON S.faculty\_id = F.faculty\_id

GROUP BY

S.staff\_first\_name, S.staff\_last\_name, S.staff\_email, B.branch\_name, F.faculty\_name

ORDER BY

"Sessions Taught" DESC, "Teacher Name", "Branch Name", "Faculty Name";

------VIEW4

CREATE VIEW student\_attendance\_summary\_view AS

SELECT

S.stdt\_first\_name || ' ' || S.stdt\_last\_name AS "Student Name",

COUNT(DISTINCT TS.session\_id) AS "Total Sessions",

SUM(CASE WHEN SA.stdt\_attendance = TRUE THEN 1 ELSE 0 END) AS "Attended Sessions",

B.branch\_name AS "Branch Name"

FROM

STUDENTS S

LEFT JOIN

STUDENT\_SESSIONS ST ON S.stdt\_id = ST.stdt\_id

LEFT JOIN

TEACHING\_SESSIONS TS ON ST.session\_ID = TS.session\_id

LEFT JOIN

STUDENT\_ATTENDANCE SA ON ST.session\_ID = SA.session\_id AND S.stdt\_id = SA.stdt\_id

LEFT JOIN

BRANCHES B ON S.branch\_id = B.branch\_id

GROUP BY

S.stdt\_first\_name, S.stdt\_last\_name, B.branch\_name

ORDER BY

"Total Sessions" DESC, "Attended Sessions" DESC, "Branch Name" ASC, "Student Name" ASC;

------VIEW no 5

CREATE VIEW missed\_sessions\_view AS

SELECT

S.stdt\_first\_name || ' ' || S.stdt\_last\_name AS "Student Name",

S.stdt\_email AS "Student Email",

S.stdt\_number AS "Student Number",

EC.contact\_first\_name || ' ' || EC.contact\_last\_name AS "Emergency Contact",

EC.contact\_email AS "Emergency Contact Email",

EC.contact\_number AS "Emergency Contact Number",

COUNT(SA.session\_id) AS "Missed Sessions"

FROM

STUDENTS S

LEFT JOIN

STUDENT\_SESSIONS ST ON S.stdt\_id = ST.stdt\_id

LEFT JOIN

STUDENT\_ATTENDANCE SA ON ST.session\_ID = SA.session\_id AND SA.stdt\_attendance = FALSE

LEFT JOIN

STDT\_EMERGENCY\_CONTACTS SEC ON S.stdt\_id = SEC.stdt\_id

LEFT JOIN

EMERGENCY\_CONTACTS EC ON SEC.contact\_id = EC.contact\_id

GROUP BY

S.stdt\_first\_name, S.stdt\_last\_name, S.stdt\_email, S.stdt\_number, EC.contact\_first\_name, EC.contact\_last\_name, EC.contact\_email, EC.contact\_number

HAVING

COUNT(SA.session\_id) > 0

ORDER BY

"Missed Sessions" DESC;

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--VIEW BASED QUERIES

--Faculty with Most Modules

SELECT

"Faculty Name",

SUM("Number of Modules") AS "Total Modules"

FROM

faculty\_courses\_view

GROUP BY

"Faculty Name"

ORDER BY

"Total Modules" DESC;

--Query to List Staff Without Emergency Contacts

SELECT "Staff Name"

FROM staff\_emergency\_contacts\_view

WHERE "Emergency Contact" IS NULL;

--Query to Find Teachers with Most Sessions:

SELECT "Teacher Name", "Email", "Sessions Taught"

FROM teachers\_sessions\_view

ORDER BY "Sessions Taught" DESC

LIMIT 10;

--Query to Overview of Student Attendance:

SELECT "Student Name", "Total Sessions", "Attended Sessions"

FROM student\_attendance\_summary\_view

ORDER BY "Attended Sessions" DESC;

--Query for Students with Most Missed Sessions:

SELECT "Student Name", "Missed Sessions"

FROM missed\_sessions\_view

ORDER BY "Missed Sessions" DESC

LIMIT 10;